

SHEET	REV	ECO	DATE	DESCRIPTION	BY	CHK	APR
1	A		03/06/83	ADDED NOTE 1 & LABEL	NS	NS	NS
1	B		03/06/83	RVS'D LABEL, ADDED P/N CALLOUT, RVS'D -2 P/N, ADDED NOTE 2, RVS'D -1 FORCE.	NS	NS	NS
1	C		05/04/84	-2, .75 WAS .71, ADDED DASH NOS. FOR LABELS, ADDED NOTE 3	NS	NS	NS
1	D		05/04/84	ADDED -3	NS	NS	NS
1	E		07/11/89	ADDED -4, ADDED LABEL FABRICATION MATERIAL WITH COLOR CHANGE. DELETED NOTE 3 & ADDED NOTE 4.	BR	BR	BR
1	F		05/24/91	CHANGED -4 VENDOR & P/N & COMPRESSED LENGTH : ADDED -5/-12 LABEL.	BR	BR	BR
1	G		12/02/91	ADDED -6 ACTUATOR.	REB	REB	REB
1	H		03/29/92	FORCE SPEC OF -6 WAS 20/25	REB	REB	REB
1	J		05/02/94	SE800GPS030 WAS AVM87-30ME. SE800GPS9040 WAS AVM87-40ME. AVM83-20E WAS AVM83-30ME	REB	REB	REB
1	K		02/27/96	PER VENDOR-REMOVED ALTERNATES & CORRECTED P/N'S & SPEC'S.	REB	REB	REB
1	L		08/29/96	ADDED -7 ACTUATOR	REB	REB	REB
1	M		03/27/97	ADDED -8 ACTUATOR	REB	REB	REB
1	N		10/22/97	ADDED -9 ACTUATOR	REB	REB	REB
1	O		11/18/97	REMOVED -10/-12 & ADDED -13 LABEL	REB	REB	REB
1	P		07/19/04	ADDED ROD MATERIAL; ADDED VENDORS ALLEGIS & GUDEN; REVISED VENDOR P/N TO MFR P/N.	REB	LS	REB
1	Q		08/29/05	-3 DIM B WAS 10.25	REB	LS	REB
1	R		02/07/06	ADDED REF. THREAD SPEC ROD MAT'L WAS STAINLESS STEEL	REB	LS	REB
1	S		05/21/09	ADDED -10. ADDED C TO NOTE 2.	REB	LS	REB
1	S	1	07/02/09	REDRAWN @ Rev. S CONTENT TO CURRENT FORMAT; SEE ARCHIVE ADDED ROD-END TORQUE, REQUIREMENT FOR ALTERNATE LABEL MATERIAL DRAWING TITLE WAS "ACTUATOR". REVISED NOTE 3 TO SEE LISTING	REB	LS	REB
		2	06/05/12	UPDATE -4 FORCE DATA; WAS 30 EXT'D, 39 COMP'D	REB	LS	REB
1	T		02/05/13	REMOVED -10	DGW		
1	U		08/17/21	NEW P/N FOR -3 WITH NEW TESTED FORCE. OLD P/N NOW ALT. ADDED "IF NECESSARY" TO NOTE 5.	DT	ZA	DT
1, 2	V		12/06/21	NEW P/N FOR -1 WITH NEW TESTED FORCE. OLD P/N NOW ALT. ADDED PREVIOUS REVISIONS BACK TO REVISION BLOCK. MOVED SHEET 1 CONTENT TO SHEET 2.	DT		
2	W		09/13/22	ALTERNATES ADDED FOR -2, -4, -5, AND -9. ADDED BLACK NITRIDE TO MATERIAL OPTIONS FOR ROD. ADDED TOLERANCES TO BOTH A & B DIMENSIONS	AD	BW	SR

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Paravion®
Technology

DIMENSIONS IN INCHES
TOLERANCES EXCEPT
WHERE NOTED:
.X = ± .1
.XX = ± .05
.XXX = ± .010
ANGLES = ± 1°
THREADS:
INTERNAL=CLASS 2B
EXTERNAL=CLASS 2A

DRAWN
BY
NLH

APRVD.
BY
BR

CHK'D
BY
LS

DATE
01/18/83

DO NOT SCALE DRAWING

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TITLE
ACTUATOR
PURCHASE SPECIFICATIONS (GENERAL
COMPONENT BUILD INSTRUCTIONS ALSO
INCLUDED)

DRAWING NO.
ES39200

REV
W

ECO

SHEET
1 OF 2

PROTO

N/C

NOTES:
1. THIS DRAWING DEFINES THE OVERALL GEOMETRY AND PERFORMANCE SPEC'NS OF THE PART/ASSEMBLY, AND CONSTITUTES THE ACCEPTANCE CRITERIA THEROF. CONFORMANCE OF HARDWARE TO THESE REQUIREMENTS IS ACCEPTABLE IN LIEU OF VENDOR DOCUMENTATION.

2. ALT. P/N ITEMS WHICH MEET THE REQUIREMENTS OF THIS DRAWING ARE ACCEPTABLE.

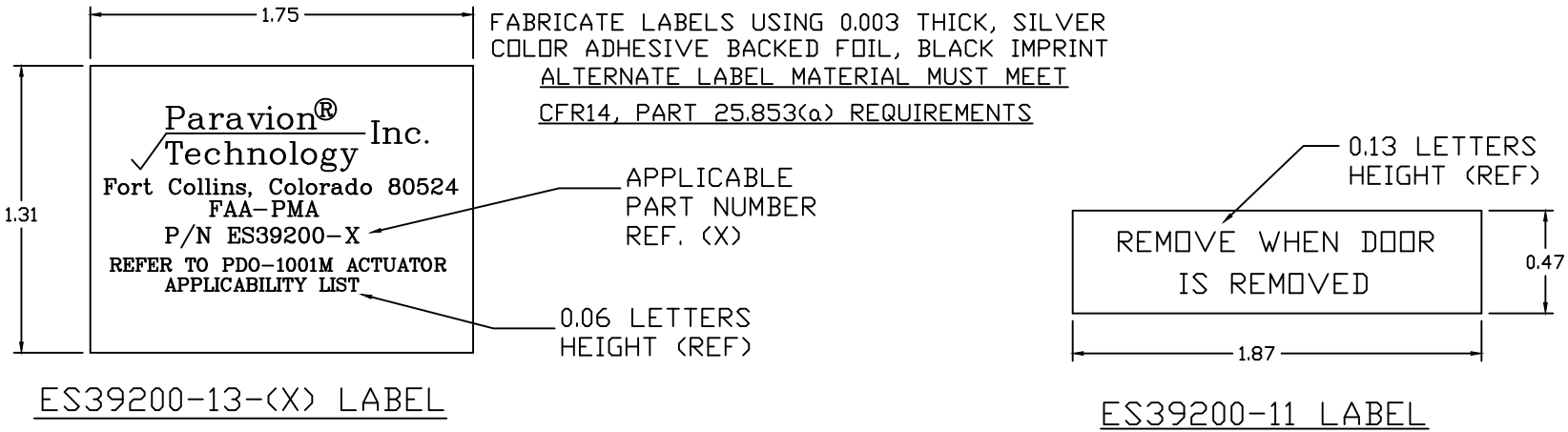
3. ACCEPTED SOURCES: SEE APPR'D VENDOR/MANUFACTURER LISTING

4. APPLY INDICATED LABELS AS SHOWN UPON SATISFACTORY PRODUCT RECEIVING INSPECTION.

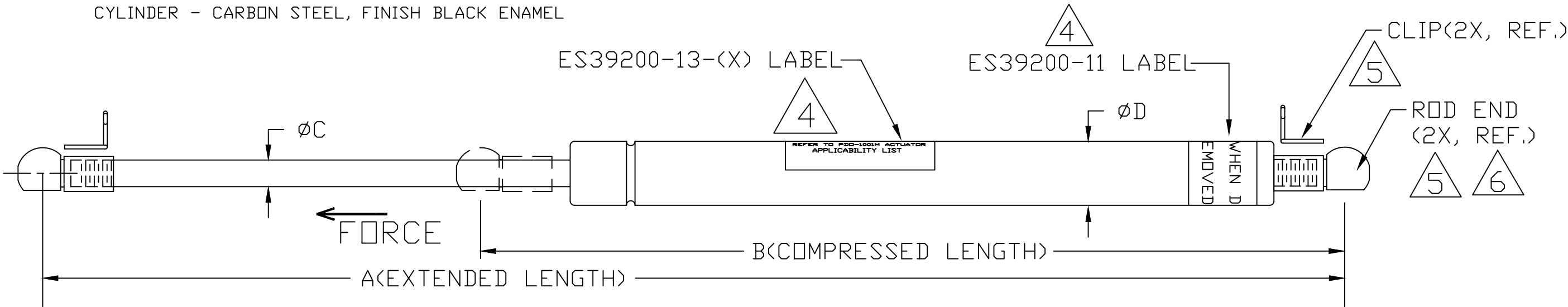
5. ACCEPTABLE REPLACEMENT ROD END ES39203-1, IF NECESSARY. ACCEPTABLE REPLACEMENT CLIP ES39202-1, IF NECESSARY.

6. INSTALL TO BOTTOM OF THREADS USING LOCKTITE P/N 81792 (RED) OR EQUIVALENT THREADLOCK. TORQUE 25-30 IN.-LB.

7. MINIMUM FORCE AT EXTENDED LENGTH - 1/8 IN. MAXIMUM FORCE AT COMPRESSED LENGTH + 1/8 IN.



MATERIAL: ROD - CHROME PLATED CARBON STEEL, OR BLACK NITRIDE
CYLINDER - CARBON STEEL, FINISH BLACK ENAMEL



ES39200-(X) ASSEMBLY

PART NO.	MFR'S PART NO. 2.	A ^{+0.5} _{-0.0}	B ^{+0.5} _{-0.0}	øC	øD	FORCE (LB.)		END TYPE
						MINIMUM	MAXIMUM 7.	
ES39200-1	AG18-500-60ST ALT: SE500V60PS90 (AVM)	15.27	10.25	0.31	0.75	60 ⁺¹⁰ ₋₅ ALT: 60	78 ⁺¹⁰ ₋₅ ALT: 78	BALL & SOCKET
ES39200-2	SE500V30PS90 (AVM) (ALT: AC 8530 OR GGN22-030-1)	15.25	10.25	0.31	0.75	30	39	BALL & SOCKET
ES39200-3	AG18-500-20ST ALT: SE500V20PS90 (AVM)	15.27	9.88	0.31	0.75	27 ALT: 20	52 ALT: 26	BALL & SOCKET
ES39200-4	SE800V30PS90 (AVM) (ALT: ACP 8830)	20.00	12.00	0.31	0.75	34/40	46/51	BALL & SOCKET
ES39200-5	SE800V40PS90 (AVM) (ALT: AC 8740 OR GGN201-040-1)	20.00	12.00	0.31	0.75	40	50	BALL & SOCKET
ES39200-6	SE350V20PS90 (AVM)	11.90	8.40	0.31	0.75	20	25	BALL & SOCKET
ES39200-7	SE700V20PS90 (AVM)	19.63	12.63	0.31	0.75	20	25	BALL & SOCKET
ES39200-8	SE500V90PS90 (AVM)	15.27	10.25	0.31	0.75	90	117	BALL & SOCKET
ES39200-9	SE700V30PS90 (AVM) (ALT: AC 8730 OR GGS24-030-1)	19.63	12.63	0.31	0.75	30	39	BALL & SOCKET

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DRAWING NO.
ES39200

REV
W

ECO

SHEET
2 OF 2

PROTO

N/C